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	Application No.	Applicant(s)	
AL CAH 1.11.	10/655,820	PARK ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Andy Huynh	2818	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED in this a) or other appropriate communicat (IGHTS. This application is subjection)	application. If not include ion will be mailed in due o	d course. THIS
1. $igotimes$ This communication is responsive to $the Amendment date$	ed 01/24/05.		
2. ⊠ The allowed claim(s) is/are <u>1≑26</u> .			·
3. $igotimes$ The drawings filed on <u>05 Suptember 2003</u> are accepted b	y the Examiner.		
4. Acknowledgment is made of a claim for foreign priority u a)	e been received. e been received in Application No. comments have been received in the of this communication to file a rep MENT of this application. Initted. Note the attached EXAMINE res reason(s) why the oath or declar st be submitted. son's Patent Drawing Review (PT 's Amendment / Comment or in the 1.84(c)) should be written on the dra the header according to 37 CFR 1.12 Dist of BIOLOGICAL MATERIAL	is national stage applicately complying with the requestion is deficient. O-948) attached COffice action of wings in the front (not the 21(d).	uirements OTICE OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summa Paper No./Mail [08), 7. Examiner's Amer 8. Examiner's State 9. Other	Date Indepty Comment Indepty Comment of Reasons for Allow	wance
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DETAILED ACTION

In the Amendment dated January 24, 2005, claims 1, 2, 7, 11, 17, 22-24 and 26 have been amended are acknowledged. Accordingly, claims 1-26 are pending in this application.

Allowable Subject Matter

Claims 1-26 are allowed.

The following is an examiner's statement of reason for allowance:

Claims 1-10 are allowable over the prior art of record because the prior art of record does not teach or render obvious a bipolar transistor comprises the third collector region having an impurity concentration at an interface with the base region higher than the remainder of the third collector region and in combination with all other features as recited in independent claim 1.

Claims 11-16 are allowable over the prior art of record because the prior art of record does not teach or render obvious a method of manufacturing a bipolar transistor comprises the third collector region having higher impurity concentration at an interface with the base region than the remainder of the third collector region and in combination with all other features as recited in independent claim 11.

Claims 17-21 are allowable over the prior art of record because the prior art of record does not teach or render obvious a bipolar transistor comprises a third collector region having a third concentration is higher at an interface with the base region than the remainder of the third collector region and in combination with all other features as recited in independent claim 17.

Claims 22 and 23 are allowable over the prior art of record because the prior art of record does not teach or render obvious a collector for a bipolar transistor comprises a third collector

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region having a third impurity concentration is highest at a portion of the third collector region furthest from the second region and in combination with all other features as recited in independent claim 22.

Claims 24 and 25 are allowable over the prior art of record because the prior art of record does not teach or render obvious a method of making a bipolar transistor comprises a third collector region having a third concentration is higher at an interface with the base region than the remainder of the third collector region and in combination with all other features as recited in independent claim 24.

Claim 26 is allowable over the prior art of record because the prior art of record does not teach or render obvious a method of making a bipolar transistor comprises a third collector region having a third concentration is highest at a portion of the third collector region furthest from the second region and in combination with all other features.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy Huynh whose telephone number is (571) 272-1781. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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03/05/05

Andy Huynh

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Patent Examiner